


Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P23692		Serial No. 10/646,882	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Hiroshi NOMURA			
				Filing Date August 25, 2003		Group 2873	



U.S. PATENT DOCUMENTS													
EXAMINER INITIAL	2004	/ 0	0	4	2	0	9	5	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2004	/ 0	0	4	2	0	9	5	03/04/04	NOMURA			
	2004	/ 0	0	4	2	0	9	3	03/04/04	NOMURA			
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	2004	/ 0	0	5	1	9	6	8	03/18/04	NOMURA			
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	2004	/ 0	0	6	2	5	3	7	04/01/04	NOMURA			
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		4	6	4	3	5	5	5	02/17/87	WAKABAYASHI			
		4	7	2	1	9	7	2	01/26/88	WAKABAYASHI			
		4	7	9	2	8	2	2	12/20/88	AKIYAMA et al.			
		5	8	1	8	6	4	7	10/06/98	NISHIO et al.			
		6	0	3	1	9	9	8	02/29/00	SHONO			
		4	4	5	1	1	2	9	05/29/84	IKARI et al.			

EXAMINER	DATE CONSIDERED 8/19/04
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U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P23692Serial No.
10/646,882INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
(Use several sheets if necessary)Applicant
Hiroshi NOMURAFiling Date
August 25, 2003Group
2873

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4	6	4	3	5	5	4	02/17/87	OGAWA			
		4	7	7	1	3	0	3	09/13/88	MATSUMOTO et al.			
		4	8	8	7	1	0	7	12/12/89	NAKAMURA et al.			
		5	1	3	6	3	2	4	08/04/92	TSUBOI et al.			
		5	7	6	5	0	4	9	06/09/98	HASE et al.			
		5	8	3	2	3	2	6	11/03/98	TANAKA			
		6	3	6	6	3	2	3	04/02/02	SHONO			
		6	1	1	5	1	9	0	09/05/00	HIRAI			
		6	0	6	4	5	3	3	05/16/00	KENIN et al.			
	2003	/0	0	8	1	3	2	5	05/01/03	NOMURA et al.			
	2001	/0	0	2	4	5	7	3	09/27/01	NOMURA et al.			
	2002	/0	1	3	5	9	0	0	09/26/02	NOMURA et al.			
		6	0	7	5	6	5	5	06/13/00	FUNAHASHI			
	2002	/0	1	3	5	9	0	1	09/26/02	NOMURA et al.			
	2003	/0	0	8	1	3	2	7	05/01/03	NOMURA et al.			
	2002	/0	1	3	5	8	9	6	09/26/03	NOMURA et al.			
		6	0	5	5	1	1	6	04/25/00	NOMURA et al.			
		6	2	0	4	9	7	7	03/20/01	IWASA			
		5	4	3	0	5	1	6	07/04/95	UZIIE et al.			
	2003	/0	0	8	1	9	4	8	05/01/03	NOMURA et al.			
	2001	/0	0	1	9	4	5	8	09/06/01	NOMURA et al.			
		4	9	9	3	8	1	5	02/19/91	YAMAZAKI et al.			
		5	7	3	1	9	1	3	03/24/98	IMANARI			
		5	7	3	9	9	6	2	04/14/98	ASAKURA et al.			
	2003	/0	1	5	6	8	3	2	08/21/03	NOMURA et al.			
		5	5	8	7	7	5	4	12/24/96	KATAYAMA et al.			
		6	0	5	2	5	3	5	04/18/00	UNO			

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DATE CONSIDERED

8/19/04

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U.S. PATENT DOCUMENTS												
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	5 2 2 3 8 7 3	06/29/93	TSUBOI									
	5 0 8 6 3 1 2	02/04/92	TANAKA et al.									
	5 4 9 9 1 4 3	03/12/96	SAKAMOTO et al.									
	6 0 6 9 7 4 5	05/30/00	FUJII et al.									
	6 3 2 4 0 1 9	11/27/01	TAKANASHI et al.									
	5 4 8 5 3 1 5	01/16/96	NOMURA et al.									

FOREIGN PATENT DOCUMENTS												
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO							
58 - 1 4 5 9 3 0	08/31/83	JAPAN										
61 - - 6 9 0 0 2	04/09/86	JAPAN										
61 - 2 7 0 7 3 7	12/01/86	JAPAN										
63 - 1 4 9 6 2 9	06/22/88	JAPAN										
64 - 3 4 6 2 3	03/02/89	JAPAN			X							
6 - 1 8 7 7 7	01/28/94	JAPAN			X							
7 - 1 9 1 2 4 9	07/28/95	JAPAN										
11 - 1 0 9 2 0 3	04/23/99	JAPAN										
58 - 1 0 7 0 8	01/21/83	JAPAN										
2 3 4 4 6 6 1	06/14/00	UNITED KINGDOM										
2 2 6 2 3 5 6	06/16/93	UNITED KINGDOM										
2003 - 2 0 7 7 0 9	07/25/03	JAPAN										
2 3 0 9 5 5 1	07/30/97	UNITED KINGDOM										
2 3 4 4 6 6 2	06/14/00	UNITED KINGDOM										
2 2 6 1 2 9 8	05/12/93	UNITED KINGDOM										
2002 - 2 7 7 7 1 9	09/25/02	JAPAN										

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	10	-	2	8	2	3	9	4	10/23/98	JAPAN					
	58	-	1	6	2	9	1	4	09/27/83	JAPAN					
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	10	-	3	2	7	4	0	02/03/98	JAPAN				X		
	7	-	2	8	8	7	2	4	10/31/95	JAPAN			X		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
✓	1	English Language Abstract of JP 58-10708.
✓	2	English Language Abstract of JP 2003-207709.
✓	3	English Language Abstract of JP 2002-277719.
✓	4	English Language Abstract of JP 10-282394.
✓	5	English Language Abstract of JP 58-162914.

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